

## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

**NOTE:** The data below represents surface water samples that were collected on March 20, 2014 by EPA START (Team 1) sampling teams. Water sample measurements are in milligrams per liter (mg/L) and/or micrograms per liter (µg/L) for these samples. The data is being compared to EPA ecological risk screening levels (ERSLs) to protect aquatic life in the surface water of the Dan River. Specific qualifiers and footnotes are listed below the summary table. These samples were collected at various locations along the river (refer to map for generalized locations). The detected concentrations in surface water are all below the EPA ERSLS with the exception of aluminum and lead. EPA typically screens the surface water concentrations using total metals samples, because this is a conservative practice for screening. Because lead was not detected above screening levels in any of the samples of the dissolved fraction of surface water (i.e., samples that were filtered to remove particulates), there is no threat of toxicity from lead to aquatic organisms. When chemical concentrations exceed the screening values it doesn't mean there will be adverse health or ecological effects, but recommends further investigation may be needed.

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		DRSS Boat Ramp		Duke Outfall B		Duke Outfall C (36" RCP)	
<b>Sample Information</b>								
Sample ID	-		EDEN-DUKE-L-SW-20140320		EDEN-48OUTFL-C-SW-20140320		EDEN-36OUTFL-C-SW-20140320	
Date	-		03/20/2014		03/20/2014		03/20/2014	
Time	-		1140		1215		1220	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Dissolved metals</b>								
Aluminum	87	µg/L	111	µg/L	98.7	µg/L	91.5	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.106J	µg/L	4.5U	µg/L	4.5U	µg/L
Barium	220	µg/L	17.2	µg/L	16.8	µg/L	17.3	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.0836U	mg/L	0.0907U	mg/L	0.0922U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,320	µg/L	6,330	µg/L	6,290	µg/L
Chromium	25	µg/L	0.219J	µg/L	0.205J	µg/L	0.201J	µg/L
Cobalt	3	µg/L	0.126J	µg/L	0.166J	µg/L	0.155J	µg/L
Copper	3	µg/L	0.579J	µg/L	0.555J	µg/L	0.604J	µg/L
Iron	1,000	µg/L	205	µg/L	177	µg/L	174	µg/L
Lead	0.59	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	-	-	2,640J	µg/L	2,620J	µg/L	2,610J	µg/L
Manganese	200	µg/L	13	µg/L	11.9	µg/L	12.6	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.199J	µg/L	0.207J	µg/L	0.23J	µg/L
Potassium	53,000	µg/L	1,340J	µg/L	1,320J	µg/L	1,350J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	4,420J	µg/L	4,230J	µg/L	4,240J	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.416J	µg/L	0.412J	µg/L	0.378J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	10U	µg/L

**EDEN NORTH CAROLINA COAL ASH SPILL  
SURFACE WATER RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		DRSS Boat Ramp		Duke Outfall B		Duke Outfall C (36" RCP)	
<b>Sample Information</b>								
Sample ID	-		EDEN-DUKE-L-SW-20140320		EDEN-48OUTFL-C-SW-20140320		EDEN-36OUTFL-C-SW-20140320	
Date	-		03/20/2014		03/20/2014		03/20/2014	
Time	-		1140		1215		1220	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Total Dissolved Solids</b>								
Total Dissolved Solids	-	-	62	mg/L	51	mg/L	56	mg/L
<b>Total Suspended Solids</b>								
Total Suspended Solids	-	-	2.5J	mg/L	7.5	mg/L	6.5	mg/L
<b>Total Metals</b>								
Aluminum	2,000	µg/L	201	µg/L	198	µg/L	253	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Barium	220	µg/L	19.2	µg/L	19.8	µg/L	20.6	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.0845U	mg/L	0.0922U	mg/L	0.0961U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,020	µg/L	6,100	µg/L	6,000	µg/L
Chromium	29	µg/L	2.5U	µg/L	2.5U	µg/L	2.5U	µg/L
Cobalt	24	µg/L	0.202J	µg/L	0.217J	µg/L	0.232J	µg/L
Copper	3	µg/L	0.704J	µg/L	2U	µg/L	2U	µg/L
Iron	2,300	µg/L	633	µg/L	685	µg/L	654	µg/L
Lead	0.6	µg/L	0.278J	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	-	-	2,570J	µg/L	2,600J	µg/L	2,550J	µg/L
Manganese	200	µg/L	18.9	µg/L	21.4	µg/L	24.3	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.264J	µg/L	0.376J	µg/L	0.492J	µg/L
Potassium	53,000	µg/L	1,350J	µg/L	1,360J	µg/L	1,350J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	5,000U	µg/L	5,000U	µg/L	5,000U	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	5U	µg/L	1.28J	µg/L	1.45J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	10U	µg/L
<b>Anions</b>								
Bromide	-	-	1U	mg/L	1U	mg/L	1U	mg/L
Chloride	230	mg/L	7.73	mg/L	7.83	mg/L	8	mg/L
Sulfate	-	-	4.47	mg/L	4.39	mg/L	4.37	mg/L

## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		DRSS Boat Ramp		Duke Outfall B		Duke Outfall C (36" RCP)	
<b>Sample Information</b>								
Sample ID	-		EDEN-DUKE-L-SW-20140320		EDEN-48OUTFL-C-SW-20140320		EDEN-36OUTFL-C-SW-20140320	
Date	-		03/20/2014		03/20/2014		03/20/2014	
Time	-		1140		1215		1220	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Wet Chemistry</b>								
Alkalinity, Total (As CaCO <sub>3</sub> )	-	-	17.6	mg/L	17.3	mg/L	17.8	mg/L
Hardness, Calcium/Magnesium (As CaCO <sub>3</sub> )	-	-	25.6	mg/L	25.9	mg/L	25.5	mg/L
Organic Carbon, Dissolved	-	-	1.23	mg/L	1.95	mg/L	2.09	mg/L
pH	6.5 - 9.0		std	6.36J	std	5.88J	std	7.01J

Notes

<sup>1</sup> Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDENR State Standards for surface water

°C degrees Celsius

EPA U.S. Environmental Protection Agency

J Value is estimated

J+ Value is estimated with a possible high bias

J- Value is estimated with a possible low bias

µg/L micrograms per liter

mg/L milligrams per liter

mS/cm milliSiemens per centimeter

NTU Nephelometric turbidity units

std standard

U Analyte was not detected at the listed reporting limit.

**EDEN NORTH CAROLINA COAL ASH SPILL  
SURFACE WATER RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 700		Hwy 880		Abreu-Grogan Park Boat Dock	
<b>Sample Information</b>								
Sample ID	-		EDEN-HW700-C-SW-20140320		EDEN-BHB-C-SW-20140320		EDEN-DANIN-R-SW-20140320	
Date	-		03/20/2014		03/20/2014		03/20/2014	
Time	-		1105		1042		0955	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Dissolved metals</b>								
Aluminum	87	µg/L	88.1	µg/L	95.2	µg/L	113	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.168J	µg/L	0.149J	µg/L	0.153J	µg/L
Barium	220	µg/L	17.2	µg/L	17.5	µg/L	18.5	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.101U	mg/L	0.101U	mg/L	0.116U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,460	µg/L	6,450	µg/L	6,410	µg/L
Chromium	25	µg/L	0.207J	µg/L	0.236J	µg/L	0.282J	µg/L
Cobalt	3	µg/L	0.354J	µg/L	0.187J	µg/L	0.417J	µg/L
Copper	3	µg/L	0.667J	µg/L	0.636J	µg/L	0.53J	µg/L
Iron	1,000	µg/L	191	µg/L	203	µg/L	263	µg/L
Lead	0.59	µg/L	0.5U	µg/L	0.5U	µg/L	0.5U	µg/L
Magnesium	-	-	2,630J	µg/L	2,680J	µg/L	2,640J	µg/L
Manganese	200	µg/L	10.3	µg/L	7.69	µg/L	11	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.238J	µg/L	0.204J	µg/L	0.246J	µg/L
Potassium	53,000	µg/L	1,370J	µg/L	1,360J	µg/L	1,370J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	4,530J	µg/L	4,420J	µg/L	4,590J	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.42J	µg/L	0.461J	µg/L	0.474J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	10U	µg/L

**EDEN NORTH CAROLINA COAL ASH SPILL  
SURFACE WATER RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 700		Hwy 880		Abreu-Grogan Park Boat Dock	
<b>Sample Information</b>								
Sample ID	-		EDEN-HW700-C-SW-20140320		EDEN-BHB-C-SW-20140320		EDEN-DANIN-R-SW-20140320	
Date	-		03/20/2014		03/20/2014		03/20/2014	
Time	-		1105		1042		0955	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Total Dissolved Solids</b>								
Total Dissolved Solids	-	-	50	mg/L	57	mg/L	103	mg/L
<b>Total Suspended Solids</b>								
Total Suspended Solids	-	-	7.5	mg/L	4.5J	mg/L	5	mg/L
<b>Total Metals</b>								
Aluminum	2,000	µg/L	239	µg/L	255	µg/L	284	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Barium	220	µg/L	19.5	µg/L	20.5	µg/L	21.3	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.103U	mg/L	0.101U	mg/L	0.146U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,190	µg/L	6,170	µg/L	6,280	µg/L
Chromium	29	µg/L	2.5U	µg/L	2.5U	µg/L	2.5U	µg/L
Cobalt	24	µg/L	0.217J	µg/L	0.222J	µg/L	0.268J	µg/L
Copper	3	µg/L	1.71J	µg/L	1.55J	µg/L	2U	µg/L
Iron	2,300	µg/L	814	µg/L	798	µg/L	995	µg/L
Lead	0.6	µg/L	0.381J	µg/L	0.367J	µg/L	0.5U	µg/L
Magnesium	-	-	2,600J	µg/L	2,600J	µg/L	2,660J	µg/L
Manganese	200	µg/L	19.6	µg/L	18.1	µg/L	23.9	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	5U	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.357J	µg/L	0.257J	µg/L	0.658J	µg/L
Potassium	53,000	µg/L	1,660J	µg/L	1,370J	µg/L	1,440J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	5,480	µg/L	5,000U	µg/L	5,000U	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	5U	µg/L	5U	µg/L	1.56J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L	10U	µg/L
<b>Anions</b>								
Bromide	-	-	1U	mg/L	1U	mg/L	1U	mg/L
Chloride	230	mg/L	8.53	mg/L	7.79	mg/L	8.38	mg/L
Sulfate	-	-	4.49	mg/L	4.28	mg/L	4.68	mg/L

## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 700		Hwy 880		Abreu-Grogan Park Boat Dock	
<b>Sample Information</b>								
Sample ID	-		EDEN-HW700-C-SW-20140320		EDEN-BHB-C-SW-20140320		EDEN-DANIN-R-SW-20140320	
Date	-		03/20/2014		03/20/2014		03/20/2014	
Time	-		1105		1042		0955	
Status	-		Validation Complete		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water		Surface Water	
<b>Wet Chemistry</b>								
Alkalinity, Total (As CaCO <sub>3</sub> )	-	-	18.6	mg/L	17.5	mg/L	17.2	mg/L
Hardness, Calcium/Magnesium (As CaCO <sub>3</sub> )	-	-	26.2	mg/L	26.1	mg/L	26.7	mg/L
Organic Carbon, Dissolved	-	-	2.07	mg/L	1.63	mg/L	2.14	mg/L
pH	6.5 - 9.0		std	7.23J	std	6.51J	std	5.98J

Notes

<sup>1</sup> Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDENR State Standards for surface water

°C degrees Celsius

EPA U.S. Environmental Protection Agency

J Value is estimated

J+ Value is estimated with a possible high bias

J- Value is estimated with a possible low bias

µg/L micrograms per liter

mg/L milligrams per liter

mS/cm milliSiemens per centimeter

NTU Nephelometric turbidity units

std standard

U Analyte was not detected at the listed reporting limit.

**EDEN NORTH CAROLINA COAL ASH SPILL  
SURFACE WATER RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 58 Bridge		Hwy 360 Bridge	
<b>Sample Information</b>						
Sample ID	-		EDEN-HW58-C-SW-20140320		EDEN-HW360-C-SW-20140320	
Date	-		03/20/2014		03/20/2014	
Time	-		0800		0840	
Status	-		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water	
<b>Dissolved metals</b>						
Aluminum	87	µg/L	229	µg/L	297	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	0.161J	µg/L	0.221J	µg/L
Barium	220	µg/L	18.7	µg/L	20.3	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.0755U	mg/L	0.0777U	mg/L
Cadmium	0.1	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,200	µg/L	6,420	µg/L
Chromium	25	µg/L	0.389J	µg/L	0.492J	µg/L
Cobalt	3	µg/L	0.158J	µg/L	0.25J	µg/L
Copper	3	µg/L	0.946J	µg/L	0.794J	µg/L
Iron	1,000	µg/L	367	µg/L	465	µg/L
Lead	0.59	µg/L	0.132J	µg/L	0.202J	µg/L
Magnesium	-	-	2,620J	µg/L	2,680J	µg/L
Manganese	200	µg/L	9.22	µg/L	7.55	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	800	µg/L	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.288J	µg/L	0.345J	µg/L
Potassium	53,000	µg/L	1,480J	µg/L	1,510J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	6,730	µg/L	6,930	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	0.854J	µg/L	0.958J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L



**EDEN NORTH CAROLINA COAL ASH SPILL  
SURFACE WATER RESULTS**

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 58 Bridge		Hwy 360 Bridge	
<b>Sample Information</b>						
Sample ID	-		EDEN-HW58-C-SW-20140320		EDEN-HW360-C-SW-20140320	
Date	-		03/20/2014		03/20/2014	
Time	-		0800		0840	
Status	-		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water	
<b>Total Dissolved Solids</b>						
Total Dissolved Solids	-	-	78	mg/L	27	mg/L
<b>Total Suspended Solids</b>						
Total Suspended Solids	-	-	13.5	mg/L	26.5	mg/L
<b>Total Metals</b>						
Aluminum	2,000	µg/L	472	µg/L	646	µg/L
Antimony	5.6	µg/L	5U	µg/L	5U	µg/L
Arsenic	10	µg/L	4.5U	µg/L	4.5U	µg/L
Barium	220	µg/L	23.6	µg/L	25.8	µg/L
Beryllium	0.66	µg/L	0.65U	µg/L	0.65U	µg/L
Boron	0.36	mg/L	0.086U	mg/L	0.0931U	mg/L
Cadmium	2	µg/L	0.1U	µg/L	0.1U	µg/L
Calcium	-	-	6,180	µg/L	6,340	µg/L
Chromium	29	µg/L	2.5U	µg/L	2.5U	µg/L
Cobalt	24	µg/L	0.443J	µg/L	0.565J	µg/L
Copper	3	µg/L	2U	µg/L	2.48U	µg/L
Iron	2,300	µg/L	1,470	µg/L	1,990	µg/L
Lead	0.6	µg/L	0.673U	µg/L	0.906U	µg/L
Magnesium	-	-	2,690J	µg/L	2,780J	µg/L
Manganese	200	µg/L	36.8	µg/L	46.5	µg/L
Mercury	0.000012	mg/L	0.0002U	mg/L	0.0002U	mg/L
Molybdenum	-	-	5U	µg/L	5U	µg/L
Nickel	17	µg/L	0.642J	µg/L	0.818J	µg/L
Potassium	53,000	µg/L	1,570J	µg/L	1,610J	µg/L
Selenium	5	µg/L	4.5U	µg/L	4.5U	µg/L
Silver	0.06	µg/L	0.05U	µg/L	0.05U	µg/L
Sodium	680,000	µg/L	7,090	µg/L	7,310	µg/L
Thallium	0.24	µg/L	0.2U	µg/L	0.2U	µg/L
Vanadium	27	µg/L	2.63J	µg/L	3.14J	µg/L
Zinc	39	µg/L	10U	µg/L	10U	µg/L
<b>Anions</b>						
Bromide	-	-	1U	mg/L	1U	mg/L
Chloride	230	mg/L	11.9	mg/L	11.7	mg/L
Sulfate	-	-	5.14	mg/L	5.41	mg/L



## EDEN NORTH CAROLINA COAL ASH SPILL SURFACE WATER RESULTS

Analyte	Ecological Screening Standard for Surface Water Samples <sup>1</sup>		Hwy 58 Bridge		Hwy 360 Bridge	
<b>Sample Information</b>						
Sample ID	-		EDEN-HW58-C-SW-20140320		EDEN-HW360-C-SW-20140320	
Date	-		03/20/2014		03/20/2014	
Time	-		0800		0840	
Status	-		Validation Complete		Validation Complete	
Type	-		Surface Water		Surface Water	
<b>Wet Chemistry</b>						
Alkalinity, Total (As CaCO <sub>3</sub> )	-	-	16.9	mg/L	17.9	mg/L
Hardness, Calcium/Magnesium (As CaCO <sub>3</sub> )	-	-	26.5	mg/L	27.3	mg/L
Organic Carbon, Dissolved	-	-	2.9	mg/L	2.82	mg/L
pH	6.5 - 9.0		std	6.44J	std	6.27J

Notes

<sup>1</sup> Value obtained from the GL Tier 2 Values; National Recommended Water Quality Criteria; Suter and Tsao (1996); Reference condition for EcoRegion XI (25 percentile); NCDENR State Standards for surface water

°C degrees Celsius

EPA U.S. Environmental Protection Agency

J Value is estimated

J+ Value is estimated with a possible high bias

J- Value is estimated with a possible low bias

µg/L micrograms per liter

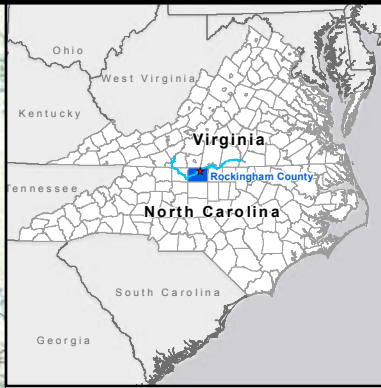
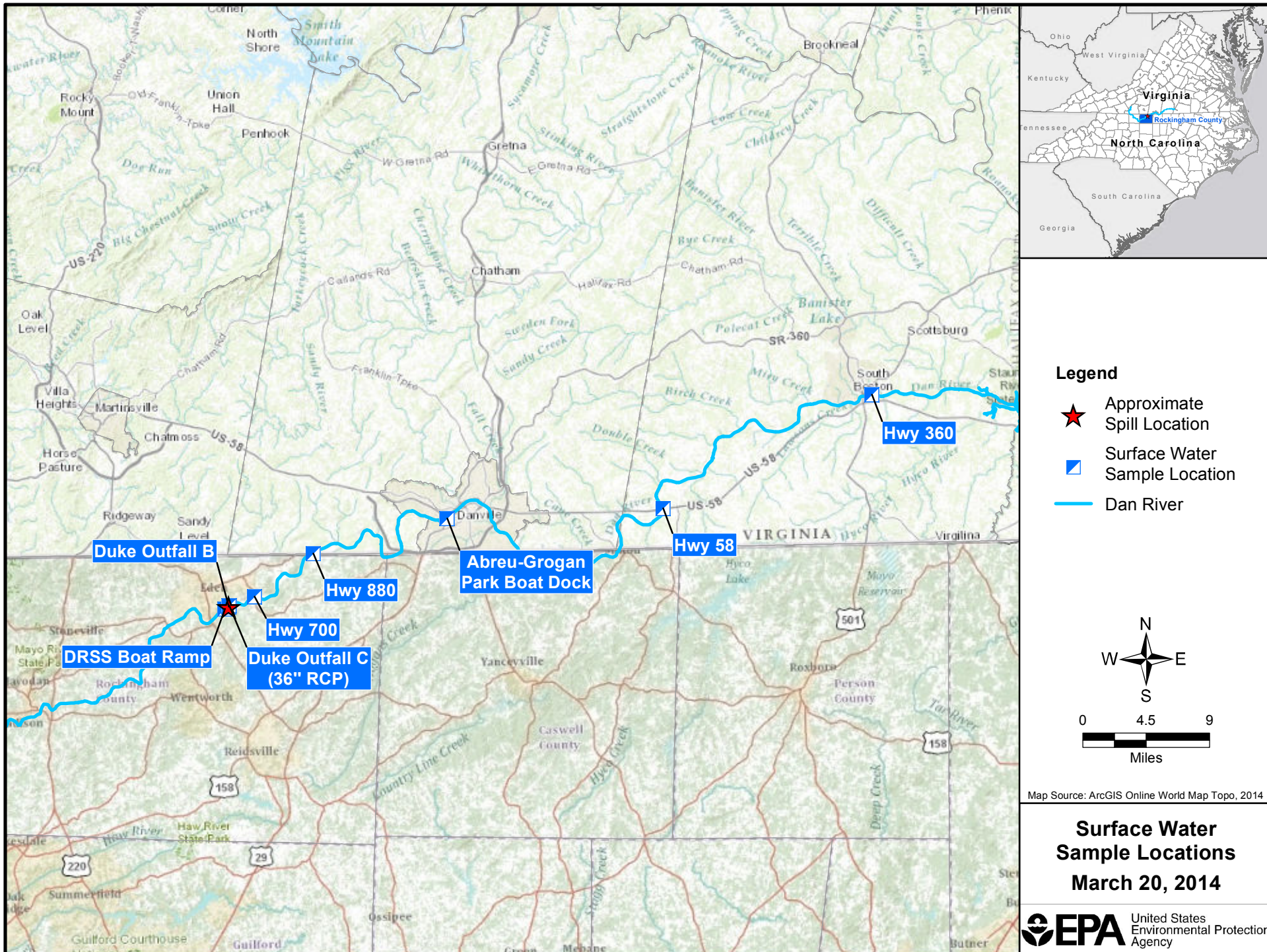
mg/L milligrams per liter

mS/cm milliSiemens per centimeter

NTU Nephelometric turbidity units

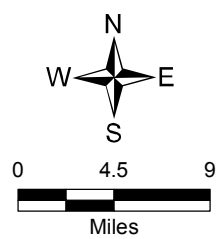
std standard

U Analyte was not detected at the listed reporting limit.



**Legend**

- ★ Approximate Spill Location
- ▣ Surface Water Sample Location
- Dan River



Map Source: ArcGIS Online World Map Topo, 2014

**Surface Water Sample Locations  
March 20, 2014**

